

## Global Warming in a bottle

Carbon Dioxide ( $CO_2$ ) is one of a number of gases that contribute to global warming. In this activity students mimic the global warming effect by creating large amounts of  $CO_2$  in a bottle and investigate if this has a heating effect.

### Equipment:

- Plastic bottle
- Digital thermometer
- Ruler
- Lamp
- Water
- Timer
- Vitamin C tablets or Alka-Seltzer tablets



You are going to measure the temperature of the air inside the bottle as  $CO_2$  is produced.

Distance from lamp should be approx. 10cm



To make this a fair experiment what do you need to keep the same?

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What factor are you going to change?

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What will be the control?

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What are you going to measure? (See clue given above)

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Results:



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Conclusion:

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